

ENERGY AUDIT REPORT



Aalim Muhammed Salegh College of Engineering
January 2020



Report by

IGNITE ENGINEERING

38/2, F1 Ranga Flats, Chrompet, Chennai - 600044
e-mail: igniteengg@gmail.com mobile number: 8778740104




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1. ABOUT THE COLLEGE

Aalim Mohammed Salegh College of Engineering has become the crown jewel in the field of Engineering & Management education since its inception.

Located at 15 kms Away from Chennai City AMSCE is perched amidst a sprawling where 10 acres is dedicated for the institution, with a robust contemporary architecture befitting global standards.

The institution affiliated to Anna University Chennai is also certified by International organisation for Standardization (ISO 9001:2015) for its Quality Management System. the institution has dawned as a present day doyen of Engineering & management Education. The institution aims at moulding students into technologically sound, efficient, creative and responsible global citizens capable of engaging with next generation challenges. is run by a team of eminent educationists whose dedication, commitment and expertise impart quality education, blended with a contemporary, yet pragmatic touch.

VISION

The College with Cutting-edge Excellence in Learning, Teaching and Research Integrates Academia, Industry and National Progress.

MISSION

- To offer Project based learning for all the Subjects beyond the Syllabus.
- To create Multidisciplinary and Interdisciplinary Research Environment among the Students through solving complex Social Technical Problems.
- To motivate Faculty Members and Students to undergo MOOC Courses and Certifications.
- To collaborate with Academia and Industry for Intellectual ambience to develop intellectual environment holistically and improve Human Capabilities.




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2. INTRODUCTION

The Energy Conservation Act, 2001 defines Energy Audit as "the verification, monitoring, and analysis of the use of energy including submission of technical report containing recommendations for improving energy efficiency with cost-benefit analysis and an action plan to reduce energy consumption".

It is an analysis of energy flows for energy conservation and to find energy losses. It is a process of collection of detailed data related to energy usage and comparison of collected results. It is a process by which we can reduce the amount of energy input to the system without a negative impact on the output.

It includes Inspection, Survey and Analysis of energy flows for energy conservation in a building, a process, or a system to reduce the amount of energy input into the system without negatively affecting the output(s) plugged. It is the quickest, cheapest, and cleanest way to reduce energy consumption.

An energy audit, sometimes referred to as an energy survey or an energy inventory, is an examination of the total energy used in a particular property. The analysis is designed to provide a relatively quick and simple method of determining not only how much energy is being consumed but where and when.

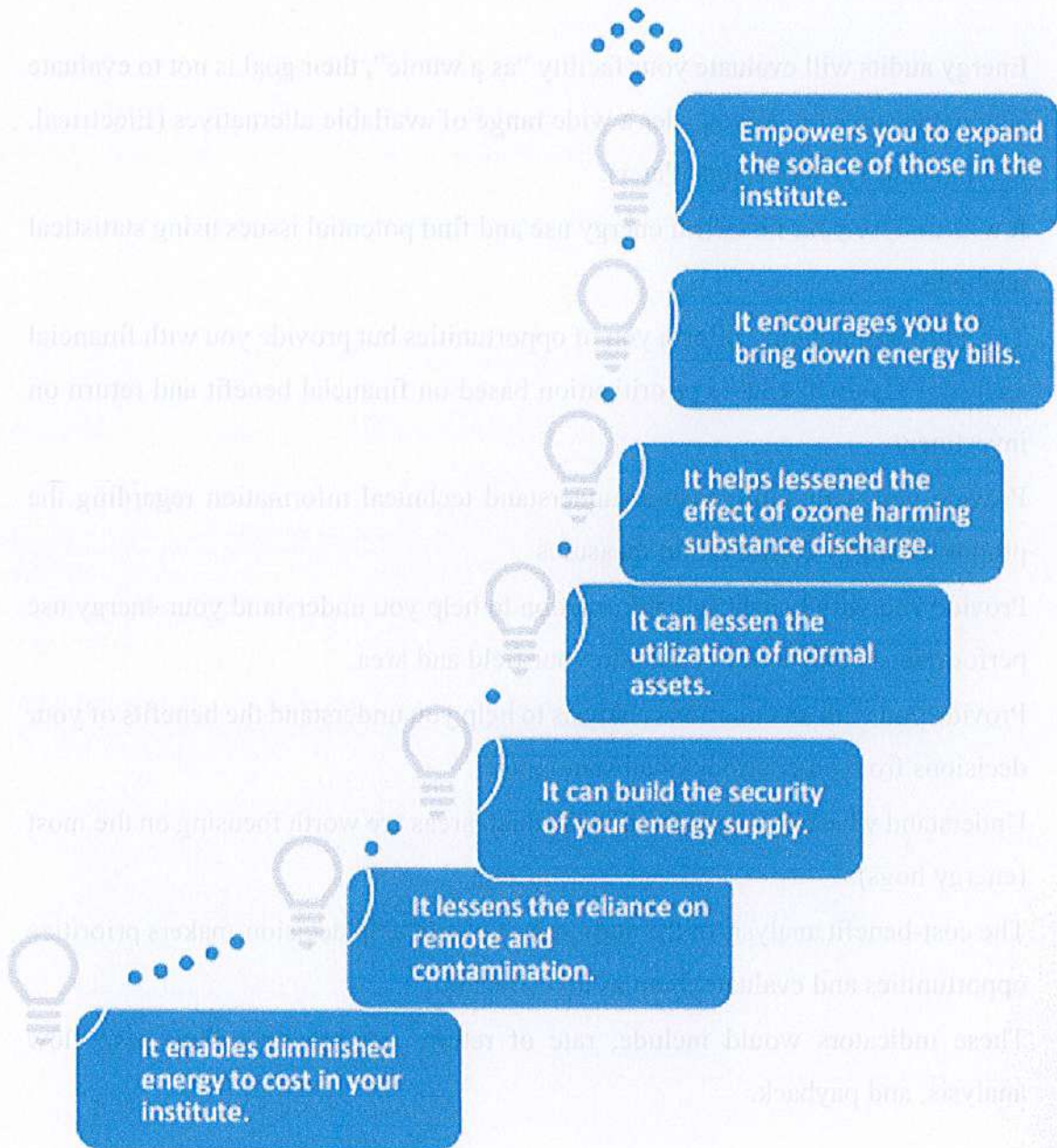
The energy audit will also identify deficiencies in operating procedures and in physical facilities. Once these deficiencies have been identified, it will be apparent where to concentrate efforts to save energy. The energy audit is the beginning of and the basis for an effective energy-management programme.

Increasingly in the last several decades, the demand to lower increasingly expensive energy costs and move towards a sustainable future has made energy audits greatly important.




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3. OBJECTIVES OF ENERGY AUDIT




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4. BENEFITS OF ENERGY AUDIT

- Energy audits will evaluate your facility “as a whole”, their goal is not to evaluate single measures but to consider a wide range of available alternatives (Electrical, Mechanical, Envelope and Water).
- It will analyse your historical energy use and find potential issues using statistical methods.
- The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on financial benefit and return on investment.
- Provide you with solid, easy-to-understand technical information regarding the proposed energy conservation measures
- Provide you with benchmark information to help you understand your energy use performance compared to others in your field and area.
- Provide you with an emissions analysis to help you understand the benefits of your decisions from an environmental standpoint.
- Understand where energy is used, and which areas are worth focusing on the most (energy hogs).
- The cost-benefit analysis of the audit report would help decision-makers prioritize opportunities and evaluate them as investments.
- These indicators would include, rate of return, net present value, cash flow analysis, and payback.



5. STAGES OF ENERGY AUDIT


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A structured methodology to carry out an energy audit is necessary for efficient working. An initial study of the site should always be carried out, as the planning of the procedures necessary for an audit is most important.

The stages of an energy audit are:

- Phase – I Pre-audit phase
- Phase – II Audit phase
- Phase – III Post-audit phase

Phase – I Pre-audit phase

An initial site visit may take one day and gives the Energy Auditor/Engineer an opportunity to meet the personnel concerned, familiarize him with the site, and assess the procedures necessary to carry out the energy audit.

During the initial site visit, the Energy Auditor/Engineer should carry out the following actions:-

- Discuss with the site's senior management the aims of the energy audit.
- Discuss economic guidelines associated with the recommendations of the audit.
- Analyse the major energy consumption data with the relevant personnel.
- Obtain site drawings where available - building layout, steam distribution, compressed air distribution, electricity distribution etc.

The main aims of this visit are: -

- To finalise the Energy Audit team
- To identify the main energy-consuming areas/plant items to be surveyed during the audit.
- To identify any existing instrumentation/ additional metering required.
- To decide whether any meters will have to be installed prior to the audit eg. kWh, steam, oil, or gas meters.




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- To identify the instrumentation required for carrying out the audit.
- To plan with time frame
- To collect macro data on plant energy resources, major energy consuming centers
- To create awareness through meetings/ programme

Phase – II Audit phase

The information to be collected during this audit phase includes:

- Energy consumption by type of energy, by department, by major items of process equipment, by end-use
- Material balance data (raw materials, intermediate and final products, recycled materials, use of scrap or waste products, production of by-products for re-use in other industries, etc.)
- Energy cost and tariff data
- Process and material flow diagrams
- Generation and distribution of site services (eg.compressed air, steam).
- Sources of energy supply (e.g. electricity from the grid or self-generation)
- Potential for fuel substitution, process modifications, and the use of co-generation systems (combined heat and power generation).
- Energy Management procedures and energy awareness training programs within the establishment.


Phase – III Post-audit phase

- Plan and schedule an action plan for implementing the corrective measures.
- Follow-up and periodic review.

6. ENERGY MANAGEMENT

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the




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assessment. The study carried out also analyzed the use of alternate energy resources that are eco-friendly.

7. OBSERVATIONS

The source of energy for all the buildings within the campus is electricity only. The institution consumes about **1400kW/Month**. However, 20KW Amount of the daily electricity requirement is supplied from **solar energy**.

The campus contains Lights and fans in use. The entire campus including common facility centers are equipped with LED lamps and LED tube lights, except at few locations. Besides this, photovoltaic cells are also installed in the campus as an alternate renewable source of energy.

Computers are set to automatic power saving mode when not in use. Solar water heaters are installed in hostel buildings as to promote renewable energy. Also, campus administration runs switch-off drill on regular basis. Equipment like Computers is used in power saving mode.




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7.1 Solar panels

Solar panel systems are extremely durable and require little to no maintenance over their productive lifetime, which can span 25 years or more. Solar systems are also extremely easy to maintain. The main maintenance that these panels require is an occasional dusting to remove dirt, leaves, or any other fragments. Each kilowatt-hour (kWh) of solar that is generated will substantially reduce greenhouse gas emissions like CO₂, as well as other dangerous pollutants such as sulfur oxides, nitrogen oxides, and particulate matter.



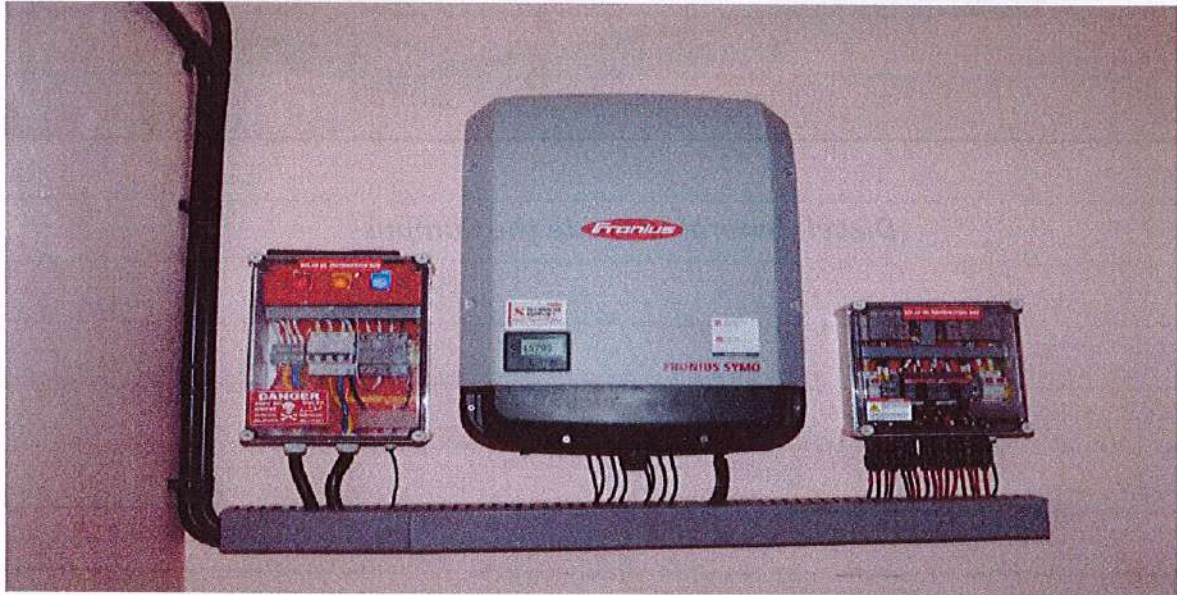
Solar panels in the campus




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Solar Control unit in the campus




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7.2 Diesel generator

The college campus is Equipped With Diesel Generators for power back up. The generators were tested for their efficiency, and physical and operating conditions and found to be fit.



Diesel Generator Inside the Campus




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7.3 Biogas Plant

In AMSCE College, kitchen waste is used to generate thermal energy for cooking and heating. The biogas produced from food waste, decomposable organic material, and kitchen waste, consisting of methane and a little amount of carbon dioxide is an alternative fuel for cooking gas (LPG).

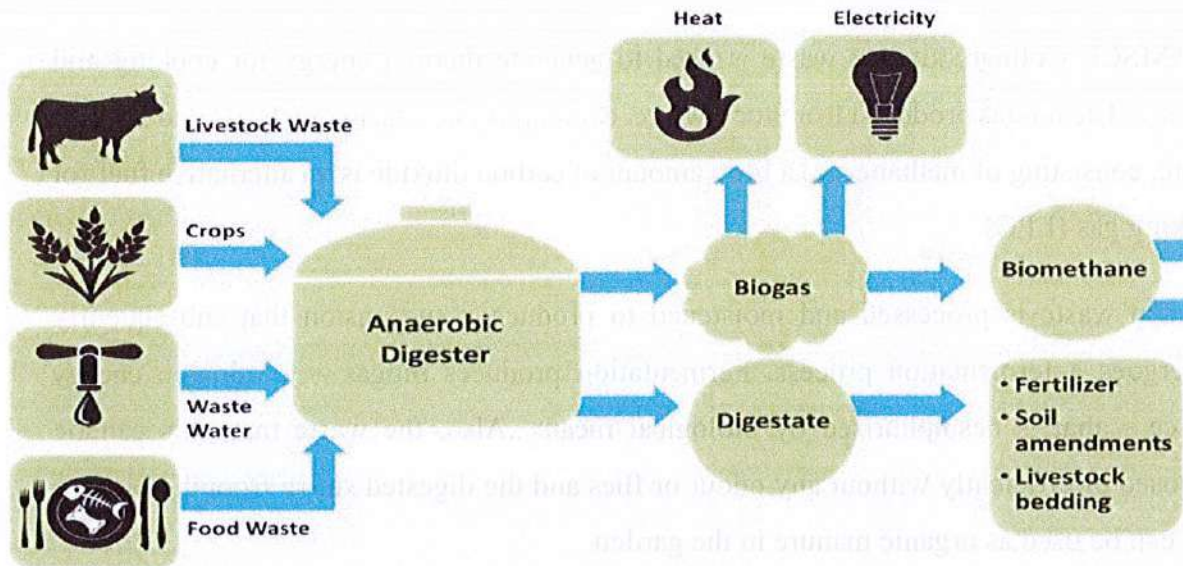
Kitchen waste is processed and moistened to produce a suspension that subsequently undergoes a fermentation process. Fermentation produces biogas – a valuable energy source – that is desulphurised by biological means. Also, the waste materials can be disposed of efficiently without any odour or flies and the digested slurry from the bio-gas unit can be used as organic manure in the garden.

The major components of the bio-gas plant are a digester tank, an inlet for feeding the kitchen waste, a gas holder tank, an outlet for the digested slurry, and the gas delivery system for taking out and utilizing the produced gas.

The College campus is equipped With 5m³ Capacity Biogas Plant to promote the use of alternate energy. Eco-friendly technology allows to produce renewable natural gas in the form of bio methane. The facility processes about 15kg of kitchen waste every day. The major waste is organic waste from College hostels, as well as leftover food from campus canteens and expired food.




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Biogas Plant Inside the campus

8. Carbon Foot Printing



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Carbon Footprint refers to the potential climatic impact (Global Warming) of the Greenhouse Gases (GHG) emitted directly or indirectly due to an organization's activities. A Carbon Footprint Disclosure of any educational institution is very important to understand such that its key emission sources can be identified and necessary mitigation measures can be adopted for carbon reduction. In today's date, very few colleges disclose their carbon emissions. AMSCE under Anna University has taken an initiative to compute its carbon footprint and set a benchmark for other Colleges/Universities. The college has adopted a carbon reduction strategy to undertake this project.

8.1 Objectives Of Carbon Foot Printing


- Identify key emission sources of GHG at the campus
- Compute Scopes of emissions for operations carried out at AMSCE Campus
- Analyze the results and provide cost effective & efficient measures for reducing the GHG emissions.

8.2 CARBON FOOT SURVEY & ESTIMATION INSIDE THE CAMPUS

Sl.No	Mode of Transport	No of Vehicles	Travellers	To & Fro Km/Per
1	Two Wheelers (Single/Shared)	250	500	20
2	Share Auto	15	75	15
3	Own Car (Single/Shared)	15	30	20
4	Mini Bus / Private Van	3	200	30
5	Public Transportation / College Bus	20	600	30
6	Bicycles	10	10	3
7	By Walk	-	50	1.5

Sl.No	Description	Emission Rate	Annual Consumption/Quantity	Eqt.Co ₂ Tonnes/Year
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I	Electrical Energy consumption	0.80 kg/kwh	12852kwh	101.85
	Diesel consumption	2.653 kg of Co ₂ /litre	6000litres	15.92
	LPG	2.983 kg of Co ₂ /kg	1786kg	4.21
II	Food Waste	1.9 kg of Co ₂ /kg	3.75 T	7.125
	Paper Waste	1.725 kg of Co ₂ /kg	5.85 T	12.09
	Water Waste	0.298 kg of Co ₂ /kl	1760kl	0.524
	Plastic Waste	6 kg of Co ₂ /kg	200 kg	1.2
	Glass/Other	0.77 kg of Co ₂ /kg	10	0.065
	Sanitary Napkin	0.5 kg of Co ₂ /kg	2275 kg	1.1262
	Two Wheelers	2.38 kg of Co ₂ /L	10000*250/50=50000	107.21
III	Share Auto	2.653 kg of Co ₂ /L	1200*250/30=10000	26.53
	Own Car	2.653 kg of Co ₂ /L	800*250/20=10000	26.23
	Mini Bus / Van	2.653 kg of Co ₂ /L	90*250/8=2812	7.46
	Bus	2.653 kg of Co ₂ /L	3000*250/30(5*50)=90000	147.32
IV	Events	Approx	500*8*1.5=6000kg	15.92
Total				448.550

Recommendations




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- Retrofitting of the old air conditioners should be done in order to prevent any leakage.
- Regular maintenance of the air conditioners and refrigerators should be done and records should be maintained.
- Reheating of food can be done on induction / microwave minimizing the use of LPG.
- The waste from compost pit can be used to generate biogas and the same pipeline may be extended to cafeteria for cooking.
- sub-metering system for electricity usage may help to identify high energy consumption areas.
- The systems (computers, laptops, air conditioners, refrigerators etc.) should be Old computers are being replaced by the latest models with Energy Star ratings.
- Occupancy sensors should be installed in the classrooms and offices.




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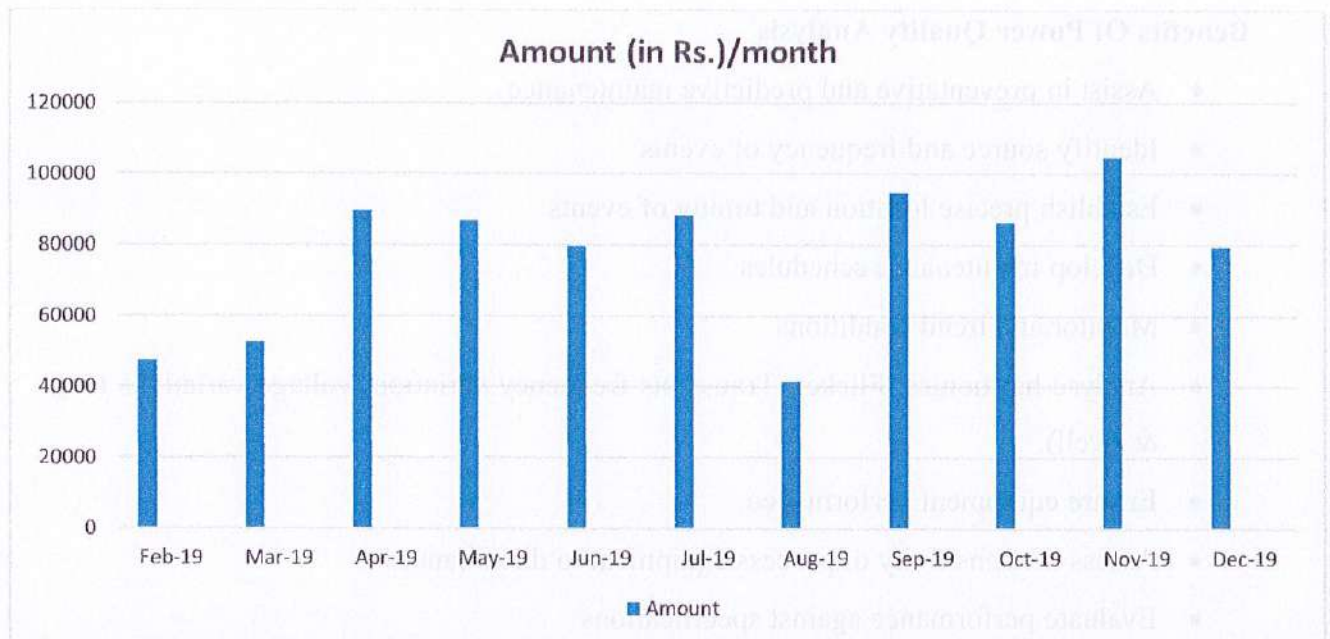
8. POWER CONSUMPTION ANALYSIS

The power consumed by the college for a year on a monthly basis is depicted below:

S.No	Month/year	Units consumed (kw/h)	Bill amount
1	02/2019	7448	47294
2	03/2019	8292	52654
3	04/2019	14092	89484
4	05/2019	13664	86766
5	06/2019	12560	79756
6	07/2019	13908	88315
7	08/2019	6532	41478
8	09/2019	14900	94615
9	10/2019	13604	86385
10	11/2019	16496	104749
11	12/2019	12492	79324




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9. POWER QUALITY AUDIT

A power quality audit checks the reliability, efficiency, and safety of an organization's electrical system. The audit verifies the following aspects:

The continuity of the power supply: It checks if the power in the network is available on a regular basis and can ensure the efficient operation of the equipment.

The quality of the voltage: It checks if there are no low or high-frequency disturbances in the network capable of damaging the system components.



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Benefits Of Power Quality Analysis

- Assist in preventative and predictive maintenance
- Identify source and frequency of events
- Establish precise location and timing of events
- Develop maintenance schedules
- Monitor and trend conditions
- Analyse harmonics, Flicker, Transients frequency variation, voltage variations (sag & swell).
- Ensure equipment performance
- Assess the sensitivity of process equipment to disturbances
- Evaluate performance against specifications



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An ISO 9001: 2015 Certified Organization
 No. 38/2 F1, ranga Flats Bharathiyar Street Chrompet Chennai-44
 Regional Office: Chennai, Pondicherry, Coimbatore & Andhra Pradesh
 Mobile: 8778740104, 8438218994 Email: igniteengg@gmail.com
 Website: www.igniteengineering.in



ENERGY CONSUMPTION CERTIFICATE

This is to certify that M/s **AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, Muthapudupet, Avadi, Chennai-600 055** Has Successfully undergone a Energy Audit Based on ISO 50001:2018 Standards and We are Satisfactory on Energy Usage in the campus based on Below mentioned Survey.

Sl.No	Description	Emission Rate	Annual Consumption/Quantity	Eqt. Co ₂ Tonnes/Year
I	Electrical Energy consumption	0.80 kg/kwh	12852kwh	101.85
	Diesel consumption	2.653 kg of Co ₂ /litre	6000litres	15.92
	LPG	2.983 kg of Co ₂ /kg	1786kg	4.21
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	Share Auto	2.653 kg of Co ₂ /L	1200*250/30=10000	26.53
	Own Car	2.653 kg of Co ₂ /L	800*250/20=10000	26.23
	Mini Bus / Van	2.653 kg of Co ₂ /L	90*250/8=2812	7.46
	Bus	2.653 kg of Co ₂ /L	3000*250/30(5*50)=90000	147.32
IV	Events	Approx	500*8*1.5=6000kg	15.92
Total				448.550

Note: Load Distribution details Attached

For Ignite Engineering

ER.P.Vivek M.E(Ph.D)
 Chartered Engineer - AM1936517



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cooperation during the audit. This ample co-operation helped us a lot in making this audit possible and successful.

FOR IGNITE ENGINEERING

ER.P.VIVEK M.E(Ph.D)

CHARTERED ENGINEER-AM1936517

Annexure-1-Load Distribution Details

Sl. No.	Particulars	Value	Percentage
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properties with electricity that can be attributed to renewable and carbon-neutral sources.

- More LED lights should be installed to reduce the power consumed for lighting.
- The campus administration should run switch-off drills on regular basis.
- In campus premises electricity should be shut down from main building supply after occupancy time, to prevent power loss due to eddy current.
- 5-star rated Air Conditioners, Fans and CFLs should be used.
- Cleaning of tube-lights/bulbs to be done periodically, to remove dust over it.

12. CONCLUSION

Energy Rating


After the complete survey and analysis of the campus as per ISO 50001:2018 energy management system standards, we rate the campus **Score 4/5**.

Energy Conservation is the wave of the future. The world is quickly moving towards Energy sustainability. An energy-efficient organization is a step toward the direction of renewable energy, environmental protection, and sustainable living. Thus, concluded that by energy auditing we identify cost-effective ways to improve the comfort and efficiency of buildings.

13. ACKNOWLEDGEMENT

We are grateful to the management and committee members of Aalim Muhammed Salegh College of Engineering to award this prestigious project on energy auditing. Further, we sincerely thank the college staff for providing us with the necessary facilities and




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10. THERMOGRAPHIC SURVEY

It is a visual investigation, carried out by a qualified engineer, to detect abnormally high temperatures within an electrical installation. A higher-than-normal temperature indicates a problem within a system that could have serious consequences if allowed to escalate. Thermographic surveys have become increasingly sought after within the building construction industry for both new builds and existing properties. Thermal Imaging Surveys provide an instant non-disruptive image of a building fabric which identifies uncontrolled air leakage pathways, cold bridging, and insulation defects.

Thermographers use a thermographic camera to detect thermal signatures and assess the integrity of the building fabric, including continuity of insulation, avoidance of thermal bridging and air leakage paths. These results are then summarised in a report which can be used to improve the efficiency of heating and in some cases, air conditioning units.

Thermography (thermal imaging) makes it possible to identify electrical defects such as loose connections and overloaded circuits (the most common cause of electrical fires), transformer cooling faults, motor winding faults, and induced currents.

A thermographic survey inspects electrical equipment including distribution fuse boards, MCB boards, contactors, switchboards, transformers, motors, battery banks, UPSs, control panels, switch fuses and isolators, etc whilst the equipment is in operation, causing no disruption to business operations.

11. RECOMMENDATIONS

- The management should support more of renewable and carbon-neutral electricity options in any energy-purchasing consortium, with the aim of supplying all college




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7	Physic Laboratory	Celling Fan	15	80	1200
8	Stationery Store Room	LED Tubelight	13	20	260
9	Prayer Hall	LED Tubelight	1	20	20
		2 Ft x 2 Ft False Ceiling Light	3	72	216
10	Passage	1 Ft x 1 Ft False Ceiling Light	6	36	216
		Exhaust Fan	1	90	90
11	Restroom (Men's & Women's)	Bulp 9 watt	1	9	9
		Orint Wall Mount Fan's	3	90	270
12	Centralised Library	Fluorescent Tubelight	1	40	40
		Water Cooler - 150 Liter	1	500	500
13	HOD Room / CSE Dept	Elevator Lift	1	5900	
		Fluorescent Tubelight	1	40	40
14	Faculty Room - I	LED Tubelight	3	20	60
		Bulp 9 watt	7	9	63
15	Faculty Room - II	LED Tubelight	3	20	60
		Sanitary Napkin Destroyer Machine	1	250	250
16	Class Room - F101	Celling Fan	34	75	2550
		Fluorescent Tubelight	7	40	280
17	Class Room - F102	LED Tubelight	25	20	500
		Xerox Machine	1	1500	1500
18	Class Room - F103	Computer Accessories	25	350	8750
		Bar Code Machine	1	20	20
19	Restroom (Men's & Women's)	Celling Fan	3	75	225
		LED Tubelight	3	20	60
20	Passage	Sprit A/C Machine 1.5 ton	1	1550	1550

First Floor



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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: CSE & IT DEPARTMENT BLOCK

Sl No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
1	Ground Floor	Office Room	2'Ft x 2'Ft False Ceiling Light	12	108	1296	
			1'Ft x 1'Ft False Ceiling Light	2	36	72	
			6" Ft x 6" Ft False Ceiling Light	4	20	80	
			Wall Mount Fan's	6	90	540	
			Sprir A/C Machine 2 ton	1	3520	3520	
			Sprir A/C Machine 1 ton	2	3520	7040	
			Computer Accessories	4	350	1400	
			Celling Fan	2	60	120	
			Bio Meter Machine	2	0.02	0.04	
			Xerox Machine Estudio 8581A	1	1920	1920	
2	Ground Floor	Principal Room	ID Card Printer	1	4	4	
			2'Ft x 2'Ft False Ceiling Light	1	72	72	
			2'Ft x 2'Ft False Ceiling Light	2	50	100	
			1'Ft x 1'Ft False Ceiling Light	1	36	36	
			Bulp 9 watt	3	9	27	
			Computer Accessories	1	350	350	
			Laserjet Printer	1	250	250	
			Sprir A/C Machine 1.5 ton	1	1325	1325	
			wating Hall Ceiling Fan	1	90	90	
			wating Hall LED Tubelight	1	20	20	
3	Ground Floor	Chemistry Laboratory	Celling Fan	7	75	525	
			LED Tubelight	8	20	160	
			Exhaust Fan	2	90	180	
			Hot Air Oven Machine	1	1500	1500	
			Computer Accessories	1	350	350	
			Muffle Furnance Equipment	1	1000	1000	
			Celling Fan	4	75	300	
			LED Tubelight	4	20	80	
			Celling Fan	6	75	450	
			Fluorescent Tubelight	4	40	160	
4	Ground Floor	NCC Room	Celling Fan	5	75	375	
			Fluorescent Tubelight	2	40	80	
5	Ground Floor	Class Room G 101	LED Tubelight	4	20	80	
			Celling Fan	15	80	1200	
6	Ground Floor	Class Room G 102	Fluorescent Tubelight	2	40	80	
			LED Tubelight	4	20	80	
7	Ground Floor	Class Room G 103	Celling Fan	15	80	1200	

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33	Project Lab	Ductable A/C Unit Machine - 5 Ton	2	5250	10500
		Projector	1	20	20
		Computer Accessories	32	850	27200
34	Net Lab	2'Ft x 2'Ft False Ceiling Light	9	72	648
		Sprit A/C Machine 2 ton	4	2150	8600
35	Restroom (Men's & Passage)	Computer Accessories	31	350	10850
36		LED Tubelight	3	20	60
		Bulp 9 watt	7	9	63
		2'Ft x 2'Ft False Ceiling Light	12	72	864
37	Virtual Hall	Sprit A/C Machine 2 ton	5	2150	10750
		Computer Accessories	1	450	450
		Speaker	4	250	1000
		Amplifier & Mixer Switch Unit	1	250	250
		Woofer Speaker	1	400	400
38	Lecture Hall 304	Celling Fan	9	80	720
		Fluorescent Tubelight	6	40	240
39	Lecture Hall 305	Celling Fan	6	80	480
		LED Tubelight	3	20	60
40	Lecture Hall 306	Celling Fan	7	80	560
		LED Tubelight	2	20	40
		Fluorescent Tubelight	3	40	120
		Cassette A/C 3 ton	7	3050	21350
41	Auditorium Hall	2'Ft x 2'Ft False Ceiling Light	15	72	1080
		6" Ft x 6" Ft False Ceiling Light	14	36	504
		Celling Mounted Speaker	10	250	2500
		Wall Mounted Speaker (Stage)	2	250	500
		Computer Accessories	1	350	350
		Amplifier & Mixer Switch Unit	1	250	250
		Projector	1	20	20
42	Faculty Room	Celling Fan	3	80	240
		Fluorescent Tubelight	2	40	80
		Pedestal Fan	1	350	350
43	Lecture Hall 307	Celling Fan	6	80	480
		LED Tubelight	4	20	80
44	Lecture Hall 307	Celling Fan	12	80	960
		LED Tubelight	2	20	40



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21	Correspondent & Secretary Room First & Second Floor	Bulb 9 watt Sprit A/C Machine 1 ton Sprit A/C Machine 2ton Pedestal Fan 2'Ft x 2'Ft False Ceiling Light 1'Ft x 1'Ft False Ceiling Light Exhaust Fan Geyser Water Heater 15liter 2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 1 ton Data Switch Rack (7 Switch) System Server 2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton Computer Accessories Computer Accessories Projector	5	9	45
22	CSE LAB Server Room	1 1 2 2 8 1 1 1 1 1 1 12 6 34 32 1 12 6 66 1 9 4 2 1 1 1 1 1 1 2 8 4 2 60 1 4 4	1050 2150 90 108 36 90 1550 108 1050 250 350 72 2150 350 850 20 72 2150 350 20 72 2150 350 20 90 2150 350 36 72 36 5250 350 20 72 36	1050 2150 180 216 288 90 1550 108 1050 250 350 864 12900 11900 27200 20 864 12900 23100 20 648 8600 144 2150 350 80 20 90 2150 350 72 576 144 10500 21000 20 288 144	
23	CSE Students Work Station Lab - I	2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton Computer Accessories Computer Accessories Projector	6 34 32 1	2150 350 850 20	12900 11900 27200 20
24	CSE Students Work Station Lab - II	2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton Computer Accessories Projector	12 6 66 1	72 2150 350 20	864 12900 23100 20
25	Research & Development Lab	2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton 2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton Computer Accessories	9 4 2 1 1	72 2150 72 2150 350	648 8600 144 2150 350
29	Faculty Charman Room	Computer Accessories 20KVA - UPS Machine (Input 3phase / Output single Phase) 15KVA - UPS Machine (Input 3phase / Output single Phase) Fluorescent Tubelight LED Tubelight Exhaust Fan	1 1 1 2 1 1	350 20000 15000 40 20 90	350 20000 15000 80 20 90
30	UPS ROOM	Sprit A/C Machine 2 ton Computer Accessories 1'Ft x 1'Ft False Ceiling Light 2'Ft x 2'Ft False Ceiling Light 1'Ft x 1'Ft False Ceiling Light Ductable A/C Unit Machine - 5 Ton Computer Accessories Projector	1 1 2 8 4 2 60 1	2150 350 36 72 36 5250 350 20	2150 350 72 576 144 10500 21000 20
31	HOD Room / IT Dept	2'Ft x 2'Ft False Ceiling Light Sprit A/C Machine 2 ton Computer Accessories 1'Ft x 1'Ft False Ceiling Light 2'Ft x 2'Ft False Ceiling Light 1'Ft x 1'Ft False Ceiling Light Ductable A/C Unit Machine - 5 Ton Computer Accessories Projector	1 1 1 2 8 4 2 60 1	2150 350 350 36 72 36 5250 350 20	2150 350 350 72 576 144 10500 21000 20
32	IT Lab	2'Ft x 2'Ft False Ceiling Light 1'Ft x 1'Ft False Ceiling Light	4 4	72 36	288 144

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GROUND FLOOR

WELDING LAB	Lathe Machines - (1 HP Motor)	2	735.5	1471	
	Bench Drilling Machine - (1 HP Motor)	1	735.5	735.5	
	Bench Grinding Machine - (1 HP Motor)	1	735.5	735.5	
	Welding Machine - (25 KWA)	5	25000	125000	
	Exhaust Fan	3	180	540	
	Celling Fan	8	40	320	
	Fluorescent Tubelight	6	80	480	
	Dynamic Balancing Machine	1	125	125	
	Balancing Of Rotating Masses	1	125	125	
	Motorised Gyroscope	1	125	125	
DYNAMIC LAB	Whirling of Shaft Apparatus	1	125	125	
	Cam Analyzer	1	125	125	
	Vibrating Table Apparatus	1	75	75	
	Universal Governor Apparatus	1	125	125	
	Turn Table Apparatus	1	125	125	
	Celling Fan	10	80	800	
	LED Tubelight	6	20	120	
	Muffle Furnace (3KW)	1	3000	3000	
	Brinell Hardness (0.5 HP)	1	367.8	367.8	
	Torsion Testing Machine (1.37 KWA)	1	1370	1370	
STRENGTH OF MATERIAL LABORATORY	Universal Testing Machine (1.5 HP)	1	1103.25	1103.25	
	Spring Testing Machine (0.75 HP)	1	551.62	551.62	
	Celling Fan	8	80	640	
	Fluorescent Tubelight	6	40	240	
	Loss Angels Abrasion Testing Machine (1 HP)	1	735.5	735.5	
	Vibrating Machine (0.5 HP)	1	367.8	367.8	
	Extractor Testing Machine (0.5 HP)	1	367.8	367.8	
	Concrete Mixing Machine (Single Phase)-(0.5 HP)	1	367.8	367.8	
	Concrete Compression Testing Machine (1 HP)	1	735.5	735.5	
	Cabromia Bearing Ratio Testing Machine (0.25 HP)	1	183.87	183.87	
Concrete LABORATORY	Marshall Stability Testing Machine (0.5 HP)	1	367.8	367.8	
	Ductility Testing Machine (0.5 HP)	1	367.8	367.8	
	Celling Fan	16	80	1280	
	Fluorescent Tubelight	4	40	160	
	LED Tubelight	5	20	100	
	Relative Density Machine (1.5 HP)	1	1103.25	1103.25	
	Direct Shear Testing Machine (0.25 HP)	1	183.25	183.25	
	Triaxial Testing Machine (0.25 HP)	1	183.25	183.25	
	Unconfined Compression Testing Machine (0.25 HP)	1	183.25	183.25	
	Oven	1	3000	3000	
SOIL MECHANICES LABORATORY	Sieve Sharge Machine (0.25 HP)	1	183.25	183.25	
	Celling Fan	7	80	560	
	Fluorescent Tubelight	7	40	280	
	Wood Cutting Machine (0.5 HP)	1	735.5	735.5	
	Celling Fan	7	80	560	
	Fluorescent Tubelight	5	40	200	
	LED Tubelight	1	20	20	
	CARPENTRY LABORATORY				



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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: MECHANICAL ENGINEERING DEPARTMENT BLOCK

SI No	Floor	Room No	Items	Qty	Per Watt	watt	REMARK
			Ceiling Fan	36	80	2880	
			Fluorescent Tubelight	20	40	800	
			Lathe Machines - (1.5 HP Motor)	15	1103.5	16552.5	
			Radial & Pillar Drilling Machine - (1.5HP Motor)	1	1103.5	1103.5	
			Hydraulic Power Hack Saw - (1.5 HP Motor)	1	1103.5	1103.5	
			Horizontal Milling Machine - (1.5HP/0.5 HP Motor)	1	1471	1471	
			Vertical Milling Machine - (1.5HP/0.5 HP Motor)	1	1471	1471	
			Surface Grinding Machine - (1.5 HP Motor)	1	1103.5	1103.5	
			Slotting Machine - (1 HP Motor)	1	735.5	735.5	
			Gear Hobbing Machine - (1.5 HP/0.5 HP Motor)	1	1471	1471	
			Cylindrical Grinding Machine - (1.5 HP/0.5HP/0.25HP Motor)	1	1654.872	1654.872	
			Tool Maker's Microscope - (0.75 HP Motor)	1	551.6241	551.6241	
			Shaping Machine - (3 HP Motor)	2	2206.5	4413	
			Capstan Lathe Machine - (1.5 HP Motor)	1	1103.5	1103.5	
			Turret Lathe Machine - (1.5 HP Motor)	1	1103.5	1103.5	
			Bench Grinder Machine - (1 HP Motor)	1	735.5	735.5	
			Planer Machine - (3 HP Motor)	1	2206.5	2206.5	
			Universal Tool and Cutter Grinder Machine - (0.75 HP Motor)	1	551.62	551.62	
			Spot Welding Machine - (10 KVA)	1	10000	10000	
			Centerless Grinding Machine - (3 HP/1.5 HP/0.5 HP Motor)	1	3677.49	3677.49	
			Rotometer (0.5 HP Motor)	1	367.8	367.8	
			Orificemeter Machine (0.5 HP Motor)	1	367.8	367.8	
			Venturimeter Machine (0.5 HP Motor)	1	367.8	367.8	
			Pipe Friction Machine (0.5 HP Motor)	1	367.8	367.8	
			Minor Losses Machine (0.5 HP Motor)	1	367.8	367.8	
			Flow Through Notch Machine (0.5 HP Motor)	1	367.8	367.8	
			Flow Through Mouth Piece Machine (0.5 HP Motor)	1	367.8	367.8	
			Berinoilles Theorem Machine (0.5 HP Motor)	1	367.8	367.8	
			Pielton Wheel Turbine (15HP Motor)	1	11032.5	11032.5	
			Francis Turbine (15HP Motor)	1	11032.5	11032.5	
			Kaplan Turbine (15HP Motor)	1	11032.5	11032.5	
			Single Stage Centrifugal Pump (2 HP Motor)	1	1471	1471	
			Muilt Stage Centrifugal Pump (2 HP Motor)	1	1471	1471	
			Reciprocating Pump (1 HP Motor)	1	735.5	735.5	
			Submersible Pump (5 HP Motor)	1	3677.49	3677.49	
			Gear-ON Pump (1.5 HP Motor)	1	1103.25	1103.25	
			Impact of jet on Vanes (0.5HP Motor)	1	367.8	367.8	
			Hydraulic flume (2HP Motor)	1	1471	1471	
			Air Compressor Machine (7.5 HP Motor) - Mechatronics Lab	1	5516.24	5516.24	

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RESTROOM (MEN'S & PASSAGE	LED Tubelight	3	20	60
	LED Tubelight	6	20	120
SURVEY LABORATORY	Celling Fan	8	80	640
	Fluorescent Tubelight	6	40	240
	Wall Mount Fan	4	90	360
WATER & WASTE WATER LABORATORY	2Ft. x 2Ft. False Celling Light	35	72	2520
	Hot Air Oven	1	3000	3000
	Incubator (2KVA)	1	2000	2000
AI & DS FACULTY ROOM - 1	LED Tubelight	2	20	40
	Celling Fan	1	80	80
	LED Tubelight	4	20	80
HOD/CYBER SECURITY	Sprit A/C Machine 1.5 ton	1	1650	1650
	Celling Fan	2	80	160
	Fluorescent Tubelight	2	40	80
	Sprit A/C Machine 1.5 ton	1	1650	1650
	Celling Fan	4	80	320
	Computer Accessories	1	350	350
HOD/CIVIL ENGINEERING	Laser Jet Printer	1	250	250
	Celling Fan	2	80	160
AI & DS FACULTY ROOM -	LED Tubelight	2	20	40
	Celling Fan	7	80	560
AI & DS CLASS ROOM F 101	LED Tubelight	4	20	80
	Fluorescent Tubelight	2	40	80
PASSAGE	LED Tubelight	5	20	100
RESTROOM (MEN'S)	Fluorescent Tubelight	4	40	160
	Fluorescent Tubelight	5	40	200
	Sprit A/C Machine 1.5 ton	1	1650	1650
HOD/MECHANICAL ENGINEERING	Celling Fan	4	80	320
	Computer Accessories	1	350	350
	Toshiba Xerox Machine ESTUDIO 2505	1	1500	1500
	Scanner Machine	1	500	500
	Celling Fan	3	80	240
MECH FACULTY ROOM - 1	Fluorescent Tubelight	2	40	80
	Computer Accessories	1	350	350
	Cassette A/C 4 ton	6	4450	26700
	Sprit A/C Machine 2 ton	1	2160	2160
	Sprit A/C Machine 1 ton	1	1150	1150
	Computer Accessories	104	350	36400
	Computer Accessories	15	350	5250
	Computer Accessories	2	450	900
	Computer Accessories	1	350	350
	CNC Machine (0.5 HP)	2	367.24	734.48
	Projector	2	50	100
AI & DS COMPUTER LABORATORY	TV:75" Smart frigate Board	1	125	125
	Smart TV 32"	1	100	100
	Amplifier	1	250	250
	Podestal Fan	1	90	90

2 FIRST FLOOR



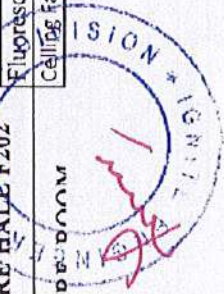
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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT BLOCK

SI No	Floor	Room No	Items	Qty	Per Watt	watt	REMARKS
1	GROUND FLOOR	ELECTRICO DEVICES CURCIT LAB	Celling Fan	10	80	800	
			LED Tubelight	11	20	220	
		DIGITAL SIGNAL PROCESSING LAB	2' X 2' False Celling Fitting	15	108	1620	
			UPS 10KVA	1	10000	10000	
			System Computer	30	350	10500	
		PRAYER HALL	Sprit A/C 1.5 Ton	5	3250	16250	
			Celling Fan	1	80	80	
		FACULTY ROOM	LED Tubelight	2	20	40	
			Celling Fan	1	80	80	
		BATHROOM MENS	LED Tubelight	2	20	40	
LED Tubelight	2		20	40			
BATHROOM WOMENS	LED Tubelight	2	20	40			
	Water Cooler 150 Liters	1	1500	1500			
VARANDA	Bulp 9 watt	6	9	54			
	Celling Fan	8	80	640			
2	FIRST FLOOR	LECTURE HALL F101	Fluorescent Tubelight	4	40	160	
			Celling Fan	8	80	640	
		LECTURE HALL F102	Fluorescent Tubelight	4	40	160	
			Celling Fan	1	80	80	
		FACULTY ROOM	Fluorescent Tubelight	2	40	80	
			Celling Fan	1	80	80	
		DEPARTMENT LIBARAY	LED Tubelight	2	20	40	
			2' X 2' False Celling Fitting	16	108	1728	
		OPITICAL MICROWAVE LAB	Fluorescent Tubelight	4	40	160	
			Sprit A/C 1.5 Ton	5	3250	16250	
BATHROOM MENS	LED Tubelight	2	20	40			
	LED Tubelight	2	20	40			
BATHROOM WOMENS	Bulp 9 watt	6	9	54			
	Celling Fan	8	80	640			
LECTURE HALL-F201	Fluorescent Tubelight	4	40	160			
	Celling Fan	8	80	640			
LECTURE HALL-F202	Fluorescent Tubelight	4	40	160			
	Celling Fan	1	80	80			




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FACULTY ROOM - I	Fluorescent Tubelight	4	40	160
MECHANICAL CLASS ROOM - 3th Year Sec - A	Ceiling Fan	9	80	720
MECHANICAL CLASS ROOM - 3th Year Sec - B	Fluorescent Tubelight	5	40	200
MECHANICAL CLASS ROOM	Ceiling Fan	6	80	480
	Fluorescent Tubelight	4	40	160
	Ceiling Fan	2	80	160
	Fluorescent Tubelight	2	40	80
MECHANICAL LIBRARY	Ceiling Fan	6	80	480
	Fluorescent Tubelight	0	40	0
	Computer Accessories	2	350	700
	Ceiling Fan	9	80	720
MECHANICAL CLASS ROOM - 2nd Year Sec - A	LED Tubelight	6	20	120
MECHANICAL CLASS ROOM - 2nd Year Sec - B	Ceiling Fan	6	80	480
	Fluorescent Tubelight	4	40	160
MECH FACULTY ROOM - 3	Ceiling Fan	1	80	80
	Fluorescent Tubelight	2	40	80
MECH FACULTY ROOM - 4	Ceiling Fan	1	80	80
	Fluorescent Tubelight	3	40	120
MECHANICAL CLASS ROOM - 2nd Year Sec - C	Ceiling Fan	6	80	480
	Fluorescent Tubelight	4	40	160
CLASS ROOM	Ceiling Fan	4	80	320
	Fluorescent Tubelight	4	40	160
	Ceiling Fan	9	80	720
	Fluorescent Tubelight	0	40	0
PRAYER HALL	Ceiling Fan	9	80	720
	LED Tubelight	6	20	120
METROLOGY & MEASUREMENTS LABORATORY	Computer Accessories	2	350	700
	Profile Projector (Helojen)	1	250	250
	LED Tubelight	4	20	80
	12 watt Bulb	3	12	36
PASSAGE	Fluorescent Tubelight	4	40	160
	Ro plant 1000 liter (2 HP)	1	1471	1471
Bathroom MEN'S	Water Cooler 150 Liters	2	1500	3000

4 Third Floor

no 2

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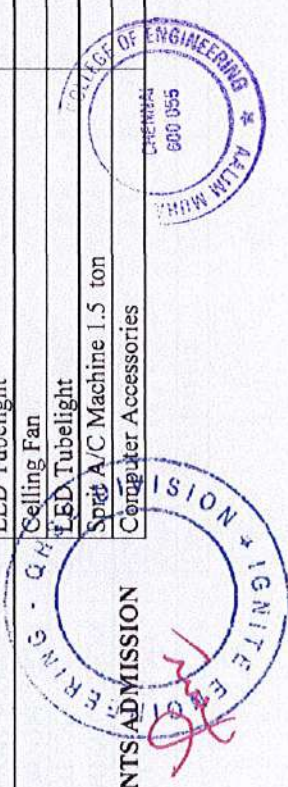


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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: BASIC ENGINEERING DEPARTMENT BLOCK

SI No	Floor	Room No	Items	Qty	Per Unit	Total W/attage	REMARKS
1	Ground Floor	CEO ROOM	1' x 1' Spot False Ceiling Light	2	36	72	
			Celling Fan	1	80	80	
			Bathroom Exhaust Fan	1	50	50	
			CFL Bulb	1	20	20	
			6" x 6" False Ceiling Light	4	20	80	
			1' x 1' Spot False Ceiling Light	2	36	72	
			Wall Mounted Fan	1	80	80	
			6" x 6" False Ceiling Light	6	20	120	
			Celling Fan	1	80	80	
			Celling Fan	4	80	320	
		Medical Officer Room	LED Tubelight	4	20	80	
			Fridge	1	150	150	
			Celling Fan	3	80	240	
			LED Tubelight	4	20	40	
		ACCOUNT OFFICE	Sprit A/C Machine 1.5 ton	1	1650	1650	
			Computer Accessories	3	350	1050	
			Printer EPSON (200 Series)	1	1510	1510	
			Laser Jet Printer (1020)	1	250	250	
			Cash Counting Machie	1	50	50	
		ACCOUNT STORE ROOM	Bulp 15 watt	1	15	15	
Celling Fan	3		80	240			
LED Tubelight	2		20	40			
VICE PRINCIPAL ROOM	Celling Fan	2	70	140			
	Sprit A/C Machine 1 ton	1	1110	1110			
	LED Tubelight	2	20	40			
PD ROOM	Bulp 9 watt	3	9	27			
	Celling Fan	1	80	80			
	LED Tubelight	3	20	60			
	Celling Fan	4	70	280			
	LED Tubelight	4	20	80			
STUDENTS ADMISSION	Sprit A/C Machine 1.5 ton	1	1650	1650			
	Computer Accessories	2	350	700			



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3	SECOND FLOOR	STORAGE ROOM	Fluorescent Tubelight	2	40	80
		FACULTY ROOM	Ceiling Fan	1	80	80
			Fluorescent Tubelight	2	40	80
		COMMUNICATION SYSTEM LAB	Ceiling Fan	10	80	800
			Fluorescent Tubelight	9	40	360
		BATHROOM MENS	LED Tubelight	2	20	40
		BATHROOM WOMENS	LED Tubelight	2	20	40
		VARANDA	Bulp 9 watt	6	9	54
		DEPARTMENT EXAM CELL	Ceiling Fan	1	80	80
			Fluorescent Tubelight	2	40	80
		IOT LAB	Ceiling Fan	8	80	640
			LED Tubelight	5	20	100
		PROJECT LAB	Ceiling Fan	8	80	640
			LED Tubelight	4	20	80
		FACULTY ROOM	Ceiling Fan	1	80	80
			Fluorescent Tubelight	2	40	80
			Fluorescent Tubelight	1	40	40
		VLSI & EMBEDDED LAB	Sprir A/C 1.5 Ton	5	3250	16250
			2' X 2' False Ceiling Fitting	15	108	1620
			System Computer	30	350	10500
			UPS 15 KVA	1	15000	15000
		BATHROOM MENS	LED Tubelight	2	20	40
		BATHROOM WOMENS	LED Tubelight	2	20	40
		VARANDA	Bulp 9 watt	6	9	54
4	THIRD FLOOR					



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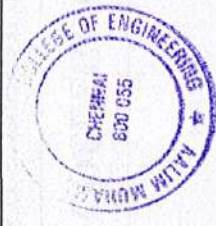
Building Name: ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT BLOCK

SI No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
1	Ground Floor	MACHINES LABORATORY	DC MACHINES Generator - 3 HP	6	1500	9000	
			DC MACHINES Alternator - 5 HP	5	3000	15000	
			DC MACHINES Generator - 1.5 HP	1	1103.83	1103.83	
			Celling Fan	19	80	1520	
			LED Tubelight	16	20	320	
			Celling Fan	7	80	560	
			LED Tubelight	4	20	80	
			Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
			2'Ft x 2'Ft False Celling Light	9	72	648	
2	First Floor	Simulation Laboratory	UPS Machine (10 KVA)	1	10000	10000	
			Sprit A/C Machine 2 ton	4	2250	9000	
			Computer Accessories	30	350	10500	
			Celling Fan	7	80	560	
			LED Tubelight	4	20	80	
			Celling Fan	1	80	80	
			LED Tubelight	2	20	40	
			Computer Accessories	1	350	350	
			Laser Jet Printer	1	250	250	
			Centralised Bell	1	250	250	
3	Second Floor	Class Room S 201	Celling Fan	6	80	480	
			LED Tubelight	2	20	40	
			Celling Fan	6	80	480	
			LED Tubelight	5	20	40	
			Celling Fan	5	80	400	
			LED Tubelight	5	20	40	
			Celling Fan	5	80	400	
			LED Tubelight	5	20	40	
			Celling Fan	5	80	400	
			LED Tubelight	5	20	40	



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4	THIRD FLOOR	GUEST ROOM	2' x 2' Flase ceiling Fitting	1	108	108
			2' x 2' Flase ceiling Fitting	2	108	216
			Sprlit A/C 2 ton	2	2150	4300
			Exhaust Fan	1	90	90
			Gyser Water Heater	1	1500	1500
			Bulp 9 Watt	1	9	9
		G D 2 ROOM	Sprlit A/C 2 ton	1	2150	2150
			2' x 2' Flase ceiling Fitting	5	108	540
		INTERVIEW ROOM	Sprlit A/C 2 ton	1	2150	2150
			2' x 2' Flase ceiling Fitting	4	50	200
			Pedasital Fan	1	90	90
		INTERVIEW ROOM	Sprlit A/C 2 ton	1	2150	2150
			2' x 2' Flase ceiling Fitting	4	108	432
			Pedasital Fan	1	90	90
INTERVIEW ROOM	Sprlit A/C 2 ton	1	2150	2150		
	2' x 2' Flase ceiling Fitting	4	108	432		
	Pedasital Fan	1	90	90		
INTERVIEW ROOM	Sprlit A/C 2 ton	1	2150	2150		
	2' x 2' Flase ceiling Fitting	4	108	432		
	Pedasital Fan	1	90	90		
DINNING HALL	2' x 2' Flase ceiling Fitting	2	108	216		
	Pedasital Fan	1	90	90		
	Sprlit A/C 2 ton	1	2150	2150		
	Fluorescent Tubelight	1	40	40		
PASSAGE	2' x 2' Flase ceiling Fitting	14	108	1512		
	1' x 1' Flase ceiling Fitting	2	36	72		
	Wall Mounted Fan	2	90	180		
SEMINAR HALL	Wall Mounted Fan	11	90	990		
	Speaker	4	250	1000		
	2' x 2' Flase ceiling Fitting	10	108	1080		
	1' x 1' Flase ceiling Fitting	12	36	432		
	Wall Mounted Fan	6	90	540		
	Speaker	4	250	1000		
WING ROOM	2' x 2' Flase ceiling Fitting	14	108	1512		
	1' x 1' Flase ceiling Fitting	14	36	504		
	Amplifrer/Mixture	2	250	500		
RESTROOM	Fluorescent Tubelight	2	40	80		
	Gyser Water Heater	1	1500	1500		



PRINCIPAL SALEGH
AALIM MUHAMMED COLLEGE OF ENGINEERING

3	SECOND FLOOR	CENTRALISED EXAM CELL	LED Tubelight	4	20	80
		Xerox Machine	1	1500	1500	
		Computer Accessories	4	350	1400	
		Laser Jet Printer (1020)	1	250	250	
		Celling Fan	7	80	560	
		LED Tubelight	3	20	60	
		System Computer	1	350	350	
		LECTURE HALL F104	Celling Fan	6	70	420
		STRONG ROOM	LED Tubelight	4	20	80
		BATHROOM MENS PASSAGE	Celling Fan	2	70	140
			LED Tubelight	2	20	40
		LECTURE HALL S201	Bulp 9 watt	2	9	18
			Bulp 9 watt	6	9	54
		LECTURE HALL S202	Celling Fan	9	80	720
			LED Tubelight	5	20	100
		LECTURE HALL S203	Celling Fan	9	80	720
			LED Tubelight	5	20	100
		LECTURE HALL S204	Celling Fan	4	80	320
			LED Tubelight	2	20	40
		MCA LAB	Celling Fan	4	80	320
			LED Tubelight	2	20	40
			Cassette A/C 4 ton	3	4450	13350
			Computer Accessories	61	350	21350
			UPS (15 KVA)	1	15000	15000
1' x 1' Flase ceiling Fitting	16		36	576		
LED Tubelight	4		20	80		
Celling Fan	3		80	240		
Computer Accessories	4		350	1400		
Cassette A/C 4 ton	1		4450	4450		
SERVER ROOM	1' x 1' Flase ceiling Fitting	4	18	72		
	Cassette A/C 4 ton	4	4450	17800		
ENGLISH COMMUNICATION LAB	Computer Accessories	91	350	31850		
	1' x 1' Flase ceiling Fitting	30	36	1080		
	2' x 2' Flase ceiling Fitting	1	108	108		
	Sprlit A/C 2 ton	1	2150	2150		
CPD CELL PLACEMENT OFFICER ROOM	2' x 2' Flase ceiling Fitting	5	108	540		
	Pedasital Fan	1	90	90		
ASST. PLACEMENT ROOM	Laser Jet Printer (1020)	1	250	250		
	Computer Accessories	1	350	350		
	Pedasital Fan	1	PRINCIPAL 90	90		



AALIM MUHAMMED SALEGH
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OFFICER ROOM	Laser Jet Printer (1020)	1	250	250
	Cash Counting Machie	1	50	50
IQAC ROOM	LED TV Motor	1	100	100
	Portable Water Cooler Machine (Voltes)	1	400	400
	Sprit A/C Machine 2 ton	2	2250	4500
	2' X 2' False Ceiling Light Fitting	2	42	84
	Spot Light 6" x 6"	4	14	56
	Pedasital Fan	1	90	90
	System Computer	2	350	700
	Toshiba E-STUJIDO 2505 Xeror Machine	1	1500	1500
	Casico Projector	1	50	50
	Projector Screen	1	50	50
JIO ROOM	Amplifier/Woofor with Speaker	1	250	250
	Celling Fan	9	70	630
	Fluorescent Tubelight	4	40	160
	LED Tubelight	1	20	20
	System Computer	14	350	4900
	Celling Fan	9	70	630
	LED Tubelight	5	20	100
	Bulp 9 watt	10	9	90
	Fluorescent Tubelight	2	40	80
	Bulp 9 watt	1	9	9
BATHROOM MENS	LED Tubelight	4	40	160
	Celling Fan	9	80	720
LADIES PRAYER HALL	LED Tubelight	5	20	100
	Bulp 9 watt	2	9	18
BATHROOM WOMENS	Celling Fan	9	70	630
	LED Tubelight	4	20	80
LECTURE HALL F101	Celling Fan	9	70	630
	LED Tubelight	4	20	80
LECTURE HALL F102	Celling Fan	9	70	630
	LED Tubelight	4	20	80
LECTURE HALL F103	Celling Fan	9	70	630
	LED Tubelight	6	20	120
LADIES FACULTY ROOM	Celling Fan	1	70	70
	Fluorescent Tubelight	1	40	40
	LED Tubelight	1	20	20
	Celling Fan	1	70	70
NSS ROOM	Fluorescent Tubelight	1	40	40
	LED Tubelight	1	20	20
FIRST FLOOR	Sprit A/C Machine 2 ton	2	2250	4500
	Celling Fan	4	70	280

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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: MENS HOSTEL BLOCK - SENIOR BLOCK

Sl No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
Senior Block							
		201	Celling Fan	1	80	80	
			LED Tubelight	2	20	40	
		202	Celling Fan	1	80	80	
			LED Tubelight	2	20	40	
		203	Celling Fan	4	80	320	
			LED Tubelight	3	20	60	
		204	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		205	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		206	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		207	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		208	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		BATHROOM	Water Heater Geyser - 25 Liter	1	2500	2500	
			LED Tubelight	6	20	120	
			Bulp 9 watt	2	9	18	
		Varada	Water Cooler - 150 Liter	1	1500	1500	
			LED Tubelight	4	20	80	
			Celling Fan	39	80	3120	
			LED Invertor Tubelight	14	20	280	
			LED Tubelight	8	20	160	
		DINNING HALL	Spot Light (10" x 10")	5	20	100	
			Freezer TATA VOLTAS - 400 liters - 1.7 AMPS	1	391	391	
			Step Lorwer - 4 KWA	1	4000	4000	
			Water Cooler - 300 liters	1	1500	1500	

GROUND FLOOR

1



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2	SECURITY ROOM	CLASS ROOM S 204	LED Tubelight	2	20	40
		Class Room S 204	Celling Fan	4	80	320
			LED Tubelight	4	20	80
		Faculty Room	Celling Fan	1	80	80
			Fluorescent Tubelight	2	40	80





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257	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
BATHROOM	Water Heater Geyser - 20 Liter	1	2500	2500
	LED Tubelight	6	20	120
	Bulp 9 watt	2	9	18
258	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
259	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
260	Ceiling Fan	4	80	320
	LED Tubelight	2	20	40
261	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
262	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
263	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
264	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
265	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
266	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
267	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
268	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
269	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
270	Ceiling Fan	4	80	320
	LED Tubelight	2	20	40
271	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
272	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40
273	Ceiling Fan	2	80	160
	LED Tubelight	2	20	40

THIRD FLOOR



AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING

**SECOND
FLOOR**

238	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
239	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
240	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
241	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
242	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
243	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
244	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
245	Celling Fan	4	80	320	
	LED Tubelight	3	20	60	
246	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
247	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
248	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
249	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
250	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
251	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
252	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
253	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
254	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
255	Celling Fan	2	80	160	
	LED Tubelight	2	20	40	
256	Celling Fan	2	80	160	

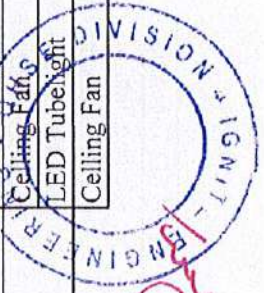


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KITCHEN AREA	Kitchen Area - LED Tubelight	6	20	120
	Exhaust Fan Kitchen Duct - 1 HP	2	745.7	1491.4
	Exhaust Fan	1	745.7	745.7
	Ceiling Fan	1	80	80
	Grinder 20 Liters	2	2000	4000
	Grinder 15 Liters	2	1600	3200
	Plate Washing Area - Wall Mounted Fan	1	55	55
	LED Invertor Tubelight	3	20	60
	LED Tubelight	4	20	80
	Ceiling Fan	3	80	240
VEGETABLE CUTTING ROOM	LED Tubelight	1	20	20
	Bulp 9 watt	3	9	27
	LED Tubelight	4	20	80
PASSAGE & HAND WASHING	Water Heater Geyser - 20 Liter	1	2500	2500
	Ceiling Fan	1	80	80
209	LED Tubelight	2	20	40
210	Ceiling Fan	1	80	80
	LED Tubelight	2	20	40
211	Ceiling Fan	4	80	320
	LED Tubelight	3	20	60
	Ceiling Fan	2	80	160
212	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
213	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
214	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
215	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
216	LED Tubelight	2	20	40
	Ceiling Fan	2	80	160
217	LED Tubelight	4	80	320
	Ceiling Fan	3	20	60
218	LED Tubelight	2	80	160
	Ceiling Fan	2	20	40
219	LED Tubelight	2	80	160
	Ceiling Fan	2	20	40
220	Ceiling Fan	2	80	160

MZ



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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: MENS HOSTEL BLOCK - FIRST YEAR BLOCK

Sl No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
		101	Celling Fan	1	80	80	
			LED Tubelight	2	20	40	
		PROVISIONAL STORE ROOM	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		PROVISIONAL STORE ROOM	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		MODEL ROOM ADMISSION STUDENTS	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		PROVISIONAL STORE ROOM	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		102	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		103	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		104	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		105	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		106	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		107	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		108	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		109	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		110	Celling Fan		80	80	
			LED Tubelight		20	60	
			Water-Cool 80 Liter	3	390	1170	

GROUND FLOOR

1



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412	LED Tubelight	2	20	40
	Celling Fan	2	80	160
274	LED Tubelight	2	20	40
	Celling Fan	2	80	160
275	LED Tubelight	2	20	40
	Celling Fan	2	80	160
276	LED Tubelight	2	20	40
	Celling Fan	2	80	160
277	LED Tubelight	2	20	40
	Celling Fan	2	80	160
278	LED Tubelight	2	20	40
	Celling Fan	2	80	160
279	LED Tubelight	2	20	40
	Celling Fan	2	80	160
280	LED Tubelight	2	20	40
	Celling Fan	2	80	160
281	LED Tubelight	2	20	40
	Celling Fan	2	80	160
282	LED Tubelight	2	20	40
	Celling Fan	2	80	160
BATHROOM	LED Tubelight	6	20	120
	Bulp 9 watt	2	9	18

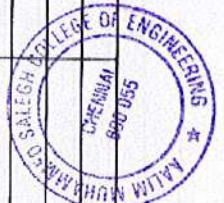



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SECOND FLOOR

3

125	Celling Fan	3	80	240
	LED Tubelight	2	20	40
126	Celling Fan	3	80	240
	LED Tubelight	2	20	40
127	Celling Fan	3	80	240
	LED Tubelight	2	20	40
128	Celling Fan	3	80	240
	LED Tubelight	2	20	40
129	Celling Fan	3	80	240
	LED Tubelight	2	20	40
130	Celling Fan	3	80	240
	LED Tubelight	2	20	40
131	Celling Fan	3	80	240
	LED Tubelight	2	20	40
132	Celling Fan	3	80	240
	LED Tubelight	2	20	40
133	Celling Fan	3	80	240
	LED Tubelight	2	20	40
134	Celling Fan	3	80	240
	LED Tubelight	2	20	40
135	Celling Fan	3	80	240
	LED Tubelight	2	20	40
136	Celling Fan	3	80	240
	LED Tubelight	2	20	40
137	Celling Fan	3	80	240
	LED Tubelight	2	20	40
138	Celling Fan	3	80	240
	LED Tubelight	3	20	60
	LED Tubelight	4	20	80
	LED Tubelight	3	20	60
BATHROOM AREA - 1	Water Heater Geyser - 20 Liter	1	2500	2500
BATHROOM AREA - 2	LED Tubelight	3	20	60
BATHROOM AREA - 3	LED Tubelight	3	20	60
BATHROOM AREA - 4	LED Tubelight	2	20	40
139	Celling Fan	3	80	240
140	LED Tubelight	2	20	40
	Celling Fan	3	80	240



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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: MENS HOSTEL BLOCK - B.ARCH BLOCK

Sl No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
B.ARCH BLOCK							
1	GROUND FLOOR	301	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		302	Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
		303	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		304	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		305	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		306	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
		307	Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
308	Celling Fan	3	80	240			
	LED Tubelight	2	20	40			
	VARANDA		Water Cool 80 Liter	1	390	390	
			Bulp 9 watt	5	9	45	
			LED Tubelight	2	20	40	
	BATHROOM AREA - 1		Bulp 9 watt	4	9	36	
			Water Heater Geyser - 20 Liter	1	2500	2500	
	309		Celling Fan	3	80	240	
			LED Tubelight	2	20	40	
	310		Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
	311		Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
			Celling Fan	2	80	160	
			LED Tubelight	2	20	40	
			Celling Fan	2	80	160	



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THIRD FLOOR

141	LED Tubelight	2	20	40
	Celling Fan	3	80	240
142	LED Tubelight	2	20	40
	Celling Fan	3	80	240
143	LED Tubelight	2	20	40
	Celling Fan	3	80	240
144	LED Tubelight	2	20	40
	Celling Fan	3	80	240
145	LED Tubelight	2	20	40
	Celling Fan	3	80	240
146	LED Tubelight	2	20	40
	Celling Fan	3	80	240
147	LED Tubelight	2	20	40
	Celling Fan	3	80	240
148	LED Tubelight	2	20	40
	Celling Fan	3	80	240
149	LED Tubelight	2	20	40
	Celling Fan	3	80	240
150	LED Tubelight	2	20	40
	Celling Fan	3	80	240
151	LED Tubelight	2	20	40
	Celling Fan	3	80	240
152	LED Tubelight	2	20	40
	Celling Fan	3	80	240
BATHROOM AREA - 1	LED Tubelight	2	20	40
BATHROOM AREA - 2	LED Tubelight	3	20	60
BATHROOM AREA - 3	LED Tubelight	3	20	60
BATHROOM AREA - 4	LED Tubelight	3	20	60

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LOAD DISTRIBUTION DETAILS INSIDE THE CAMPUS

Building Name: LADIES HOSTEL BLOCK

Sl No	Floor	Room No	Items	Qty	Per Unit	Total Wattage	REMARKS
1	GROUND FLOOR	DINNING HALL & KITCHEN AREA	LED Tubelight	8	20	160	
			Ceiling Fan	7	80	560	
		F101	LED Tubelight	2	20	40	
			Ceiling Fan	4	80	320	
2	FIRST FLOOR	F102	LED Tubelight	2	20	40	
			Ceiling Fan	2	80	160	
		F103	LED Tubelight	2	20	40	
			Ceiling Fan	4	80	320	
3	SECOND FLOOR	F104	LED Tubelight	3	20	60	
			Ceiling Fan	4	80	320	
		BATHROOM AREA	Bulp 9 watt	5	9	45	
			LED Tubelight	1	20	20	
4	THIRD FLOOR	PASSAGE AREA	Bulp 9 watt	3	9	27	
			LED Tubelight	2	20	40	
		S105	LED Tubelight	2	20	40	
			Ceiling Fan	4	80	320	
3	SECOND FLOOR	S106	LED Tubelight	2	20	40	
			Ceiling Fan	2	80	160	
		S107	LED Tubelight	2	20	40	
			Ceiling Fan	4	80	320	
3	SECOND FLOOR	S108	LED Tubelight	3	20	60	
			Ceiling Fan	4	80	320	
		BATHROOM AREA	Bulp 9 watt	5	9	45	
			LED Tubelight	1	20	20	
3	SECOND FLOOR	PASSAGE AREA	Bulp 9 watt	3	9	27	
			LED Tubelight	2	20	40	
		T109	LED Tubelight	2	20	40	
			Ceiling Fan	3	80	240	
4	THIRD FLOOR	WARDEN ROOM	LED Tubelight	2	20	40	
			Ceiling Fan	2	80	160	
		T110	LED Tubelight	2	20	40	
			Ceiling Fan	3	80	240	
4	THIRD FLOOR	T111	LED Tubelight	2	20	40	
			Ceiling Fan	2	80	160	
		BATHROOM AREA	Bulp 9 watt	3	9	27	
			LED Tubelight	1	20	20	
4	THIRD FLOOR	PASSAGE AREA	Bulp 9 watt	3	9	27	
			LED Tubelight	2	20	40	
		TRECCESS	Bulp 9 watt	6	9	54	
			Solar Pannal	1	4000	4000	



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312	LED Tubelight	2	20	40	
313	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
314	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
315	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
316	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
317	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
318	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
319	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
320	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
321	Ceiling Fan	3	80	240	
	LED Tubelight	2	20	40	
VARANDA	Water Cool 150 Liter	1	1950	1950	
	Bulp 9 watt	5	9	45	
	LED Tubelight	2	20	40	
BATHROOM AREA - 1	Water Heater Geyser - 20 Liter	1	2500	2500	
	Bulp 9 watt	4	9	36	

2 FIRST FLOOR



M2
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Certificate of Registration

This is to certify that

IGNITE ENGINEERING

6B, MADHA KOVIL ROAD, K.PUDUR, MADURAI,
TAMIL NADU, 625007, INDIA

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

**CONDUCTING GREEN, ENERGY AND ENVIRONMENT AUDIT
TO EDUCATIONAL INSTITUTIONS AND INDUSTRIES.**

Date of Certification: 10th May 2022

2nd Surveillance Audit Due: 9th May 2024

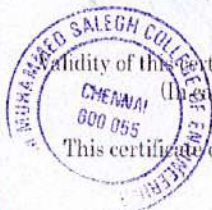
1st Surveillance Audit Due: 9th May 2023

Certificate Expiry: 9th May 2025

Certificate Number: 305022071255Q



Head of Certification



The Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
(If these surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).

The Validity of this certificate can be verified at www.qrocert.org

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

India Office : QRO Certification LLP

142, 11nd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063 (INDIA)

Website : www.qrocert.org, E-mail :

PRINCIPAL

COLLEGE OF ENGINEERING



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number :33BMLPP8306G1ZX

1.	Legal Name	PANDIYAN			
2.	Trade Name, if any	IGNITE ENGINEERING			
3.	Constitution of Business	Proprietorship			
4.	Address of Principal Place of Business	6B, MADHA KOVIL ROAD, K.PUDUR, Madurai, Tamil Nadu, 625007			
5.	Date of Liability				
6.	Period of Validity	From	27/07/2017	To	NA
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority				
Signature					
Name					
Designation					
Jurisdictional Office					
9.	Date of issue of Certificate	27/07/2017			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of the application for registration




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



Accreditation Certificate No. (011905A)

**Arab Republic of Egypt
Egyptian Accreditation Council (EGAC)**

Certifies that

QRO Certification LLP

**(142) - 2nd Avtar Enclave - Paschim Vihar
Delhi - India**

Has been accredited by EGAC in compliance with the requirements of

**ISO/IEC 17021-1:2015
ISO/IEC 17021-3:2017
ISO 22003-1:2022**

**ISO/IEC 17021-2:2016
ISO/IEC TS 17021-10:2018
ISO 50003:2021**

In The Field of (QMS, EMS, OHSMS, FSMS, EnMS and MDQMS)

The scope of accreditation is described in the attached schedule No. (011905B)

Scope Issue No. (03)

Issue No. (03): November 21, 2023

Valid to: November 20, 2027

Subject to continued compliance to the above standard and EGAC requirements
The Company is accredited to grant certification under EGAC Accreditation
In the attached scope of accreditation

EGAC is an MLA Signatory with IAF in the Fields of Accreditation of
Product Certification, Certification of Persons and Management System
Certification (QMS, EMS, OHSMS, EnMS, FSMS and MDQMS) Bodies

1st Accreditation Date: November 21, 2019

Eng. Hanie El Desouki

Hanie El Desouki

Executive Director

Egyptian Accreditation Council



Eng. Ahmed Samir Saleh

Ahmed Samir Saleh

Chairman of EGAC

70359

Minister of Trade and Industry

**PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING**



Accreditation Certificate No. (011905 A)

**Arab Republic of Egypt
Egyptian Accreditation Council (EGAC)**

Certifies that

QRO Certification LLP

**(142) - 2nd Avtar Enclave - Paschim Vihar
Delhi - India**

Has been accredited by EGAC in compliance with the requirements of

**ISO/IEC 17021-1:2015
ISO/IEC 20000-6:2017**

**ISO/IEC 27006:2015
ISO/IEC 17021-6:2014**

In The Field of (ISMS, ITMS, BCMS and EOMS)

The scope of accreditation is described in the attached schedule No. (011905B)

Scope Issue No. (03)

Issue No. (03): November 21, 2023

Valid to: November 20, 2027

Subject to continued compliance to the above standard and EGAC requirements
The Company is accredited to grant certification under EGAC Accreditation
In the attached scope of accreditation

EGAC is an MLA Signatory with IAF in the Fields of Accreditation of
Product Certification, Certification of Persons and Management System
Certification (QMS, EMS, OHSMS, EnMS, FSMS and MDQMS) Bodies

1st Accreditation Date: November 21, 2019

Eng. Hanie El Desouki

Hanie El Desouki

Executive Director

Egyptian Accreditation Council

Eng. Ahmed Samir Saleh

Ahmed Samir Saleh

Chairman of EGAC

Minister of Trade and Industry

70358

**PRINCIPAL
AALIM MUHAMMED SALEH
COLLEGE OF ENGINEERING**



Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To

QRO Certification LLP

(142) - 2nd Floor Aytar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0): Valid to: November 20, 2027

IAF Codes No. Quality Management System ISO 9001:2015

1	Agriculture, forestry and fishing
3	Food products, beverages and tobacco
4	Textiles and textile products
5	Leather and leather products
6	Wood and wood products
7	Limited to "Pulp and paper manufacturing"
10	Manufacture of coke and refined petroleum products
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
17	Basic metals and fabricated metal products
18	Machinery and equipment
19	Electrical and optical equipment
20	Shipbuilding
22	Other transport equipment
23	Manufacturing not elsewhere classified
28	Construction
29	Wholesale and retail trade; Repair of motor vehicles, motorcycles and personal and household goods

Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt

Tel.: (202) 25275220/5/6/7

Fax: (202) 25275224



F-4W16C

Dec 2018

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A.ALIM MUHAMMED SALEGH
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كورنيش المعادي - برج رياض المعادي - القاهرة - مصر
تيلفون : ٢٥٢٧٥٢٢٠٥/٦/٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٢ (٢٠٢)

Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To

QRO Certification LLP

(142) - 2nd Floor Avtar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0): Valid to: November 20, 2027

30	Hotels and restaurants
32	Financial intermediation; real estate; renting.
33	Information technology.
34	Engineering services
35	Other services.
36	Public administration.
37	Education.
38	Health and social work



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AALIM MUHAMMED SALEGH
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Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt
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Fax: (202) 25275224

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1 / Dec 2018
Page 2 of 7

كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر
تيلفون : (٢٠٢) ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧
فاكس : (٢٠٢) ٢٥٢٧٥٢٢٤

Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1

Issued To

QRO Certification LLP

(142) - 2nd Floor Aytar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. 0: Valid to: November 20, 2027

IAF Codes No. Health and Safety Management System ISO 45001:2018

3	Food products, beverages and tobacco
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
15	Non-metallic mineral products
16	Concrete, cement, lime, plaster, etc.
17	Basic metals and fabricated metal products.
18	Machinery and equipment.
19	Electrical and optical equipment.
22	Other transport equipment.
28	Construction
30	Hotels and restaurants
32	Financial intermediation: real estate; renting.
33	Information technology.
34	Engineering services
37	Education.
38	Health and social work



Handwritten signature in green ink.

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
1 / Dec 2018

Handwritten signature in black ink.

كورنيش المعادي - برج رياض المعادي - القاهرة -
تيلفون : ٢٠٢ ٢٥٢٧٥٢٢٠ / ٢٥٢٧٦٠٧
فاكس : ٢٠٢ ٢٥٢٧٥٢٢٤

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Tel: (202) 25275220-5/6/7
Fax: (202) 25275224

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for Certification Body According to ISO/IEC 17021-1
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(142) - 2nd Floor Avtar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0):
Valid to: November 20, 2027

LAF Codes No. Environmental Management System ISO14001:2015

3	Food products, beverages and tobacco
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
15	Non-metallic mineral products
16	Concrete, cement, lime, plaster, etc.
17	Basic metals and fabricated metal products.
18	Machinery and equipment.
19	Electrical and optical equipment.
22	Other transport equipment.
28	Construction
30	Hotels and restaurants
32	Financial intermediation; real estate; renting.
33	Information technology.
34	Engineering services
37	Education.
38	Health and social work

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Tel.: (202) 25275220/5/6/7

Fax: (202) 25275224



F-14/6C AALIM MUHAMMED SALEGH
1 / Dec 2018 COLLEGE OF ENGINEERING

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Industrial Investment Authority - Account name: فر. مصر - منطقة الإسكندرية للصناعة

كورنيش المعادي - برج رياض المعادي 1 - القاهرة
تليفون : (٢٠٢) ٢٥٢٧٥٢٢٠/٥/٦/٧
فاكس : (٢٠٢) ٢٥٢٧٥٢٢٤

Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
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Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0): Valid to: November 20, 2027

Medical Device Quality Management Systems ISO 13485 :2016 According to IAF MD 9

Main Technical Areas	Technical Areas
Non-active Medical Devices	General non-active, non-implantable medical devices Non-active implants Devices for wound care Non-active dental devices and accessories Non-active medical devices other than specified above
In Vitro Diagnostic Medical Devices (IVD)	Reagents and reagent products, calibrators, and control materials for: <ul style="list-style-type: none">• Clinical Chemistry• Immunochemistry (Immunology)• Haematology/Haemostasis/Immunohematology• Microbiology• Infectious Immunology• Histology/Cytology• Genetic Testing IVD Instruments and software IVD medical devices other than specified above

Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To

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(142) - 2nd Floor Avtar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B

1st Accreditation date: November 21, 2019 Issue No. (03); November 21, 2023

Revision No. (0)

Valid to: November 20, 2027

Food Safety Management System ISO 22000:2018 According to ISO 22003-1:2022

Cluster	Category	Sub-category
Processing food for humans and animals	C Food ingredient and pet food processing	C0 Animal - Primary conversion
		C1 Processing of perishable animal products
		C11 Processing of perishable plant products
		C111 Processing of perishable animal and plant products
		C1V Processing of ambient stable products
Catering/food service	F Catering/food service	
Retail, transport and storage	F Trading, retail and e-commerce	FI Retail/ wholesale
	G Transport and storage services	FII Brokering/ trading



Kornish El-Maadi, Road El-Maadi Tower 1 - Cairo - Egypt

Tel.: (202) 25275220/5/6/7

Fax: (202) 25275224

F-4W/6C

1/ Dec 2018

Page 5 of 7

PRINCIPAL - SALEGH
M. A. SALEGH

AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING
KATINA
تلفون : 25275220/5/6/7 (202)
فاكس : 25275224 (202)



Green International

Experts in Project Management Consulting & Training

This is to certify that

Mr. P.Vivek

has attended / successfully completed

LEED Green Associate

as per the standard of

“USGBC Green Building Principles”

Duration : 16 Hrs / 12 PDU's Start Date : 13 Jun 2015 End Date : 24 Jun 2015

Geetha Ravichandran, M.E, PMP, LEED AP,

Faculty / Program Coordinator

Course ID : GIGA0400

Certificate Number : GIGA-791




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



To verify the authenticity of this certificate, log on to
www.greenmtc-int.com/certificate_verification.aspx

Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To
QRO Certification LLP
(142) - 2nd Floor Avatar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0):

Valid to: November 20, 2027

- Information Security Management Systems ISO 27001:2013 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 27006: 2015**
- Energy Management Systems ISO 50001:2018 According to 50003:2021**
- Information technology Management Systems ISO/IEC 20000-1:2018 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 20000-6:2017**
- Business continuity Management Systems ISO 22301:2019 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 17021-6:2014**
- Educational organization Management Systems ISO 21001:2018 In accordance with ISO/IEC 17021-1: 2015**

This conformity assessment body (CAB) is recorded as issuing EGAC accredited certificates to organizations in the countries listed below. This list is current at the time of issue of this scope of accreditation.

India	Egypt	Jordan	Nigeria	Romania	Bulgaria
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Note*: Locations where certification activities covered by the above Accreditation Standard are undertaken 142, 2nd Floor Avatar Enclave, Paschim Vihar, Delhi, India

PRINCIPAL

ALIM MUHAMMED SALEGH
MORNING ENGINEERING

Kornish El Mohandessin, Giza, Egypt
Tel.: (202) 25275220/5/6/7

Fax: (202) 25275224



FAW/6C

1 / Dec 2018

Page 7 of 7



TVE International Academy Pvt. Ltd.

Certificate of Achievement

This is to certify that

S.KARTHIGA

Has successfully passed all the course assessment requirements

ISO 14001:2015 Lead Auditor (Environmental Management Systems) Training Course

CQI & IRCA Course No : 1709

Certificate Number : TVEE06031277

CQI Unique Delegate ID No : 350909

Course End Date : 31st Jan 2022

Issue Date : 03rd June 2022



CERTIFIED COURSE

RAJALAKSHMI BASKARAN
Course Director



The Certificate is valid for 5 years for the purpose of Auditor Certification by IRCA
For current validity of the certificate, visit www.tvecert.org





ASPIRA CERTIFICATIONS
www.aspiracertifications.com

Certificate of Achievement

This is to certify that

P.VIVEK

(CQI ULN : AC/ENMS/0521)

has successfully passed all the course assessment requirements for PR366 ISO
50001 : 2018 (Energy Management System) Lead Auditor Training Course

Course Start Date : 15.03.2021

Course End Date : 20.03.2021

Certificate No : 2021ENMS1466

Course No : 2318



Handwritten signature

PRINCIPAL MUHAMMED SALEGH
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
IRCA



Approved by:

Handwritten signature

Managing Director

S.No : ENMS/5689/2021 The Certificate is valid for 5 years from the date above for the purpose of registering as an auditor with IRCA

For authenticity of this certificate, visit, www.aspiracertifications.com



TVE International Academy Pvt. Ltd.

Certificate of Achievement

This is to certify that

P. VIVEK

has successfully passed the examination of the CQI & IRCA Certified

**ISO 9001:2015 Lead Auditor
(Quality Management Systems)
Training Course**

Organized in Co-operation with



DRV Certification Services, India

CQI & IRCA Course No : 17980 Certificate Number: TVEQ12142154

CQI Unique Delegate ID No : 147061 Course Dates : Nov - Dec 2018

(Weekend Programme)



CQI



IRCA

CERTIFIED COURSE

Course Director



PRINCIPAL
AALIM MUHAMMAD SAJJITH
COLLEGE OF ENGINEERING

For current validity of the certificate, visit www.tvecert.com



TVE International Academy Pvt. Ltd.

Certificate of Achievement

This is to certify that

P. VIVEK

has successfully passed the examination of the CQI & IRCA Certified

ISO 45001:2018 Lead Auditor
(Occupational Health and Safety Management Systems)
Training Course

Organized in Co-operation with



DRV Certification Services, India

CQI & IRCA Course No : 1878 Certificate Number: TVEH06212158

CQI Unique Delegate ID No : 187536 Course Dates : May - Jun 2019
(Weekend Programme)



CQI



IRCA

CERTIFIED COURSE

Course Director

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



For the authenticity of the certificate, visit www.tvecert.org